

**In the Claims**

**1. (currently amended)** A coating composition comprising

a1) physically drying film forming binder resin or resins;

a2) thermally cross linking film forming binder resin or resins;

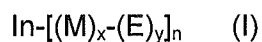
a3) radiation curable film forming binder resin or resins;

a4) autoxidatively drying film forming binder resin or resins; or

a5) a combination of binder resins with at least two different crosslinking mechanisms selected from

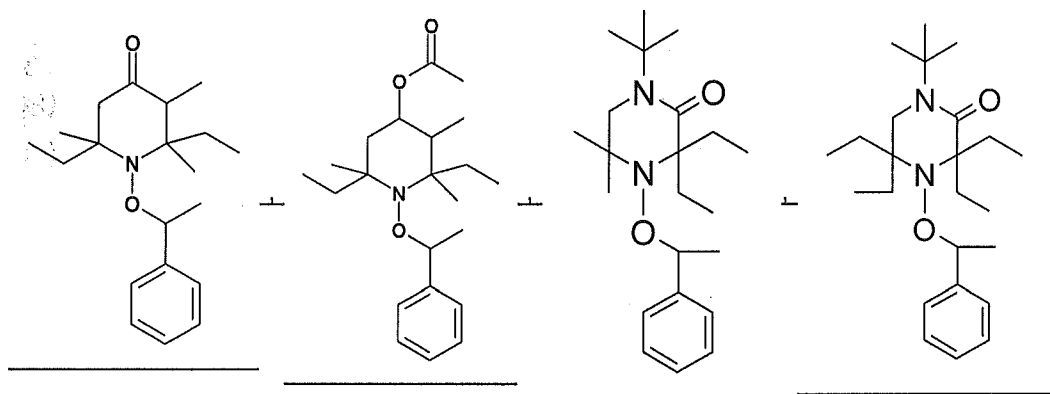
a1), a2), a3) and a4);

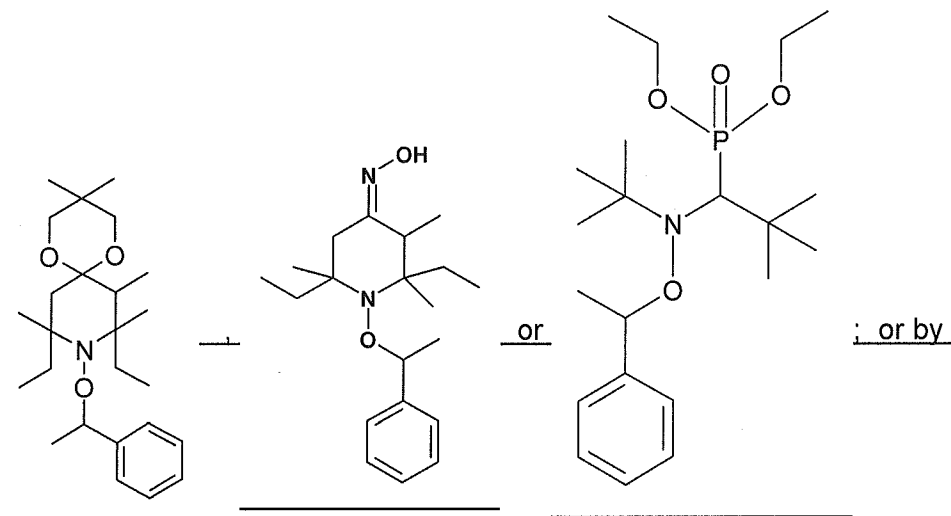
b) a polymer or copolymer levelling agent of formula (I)



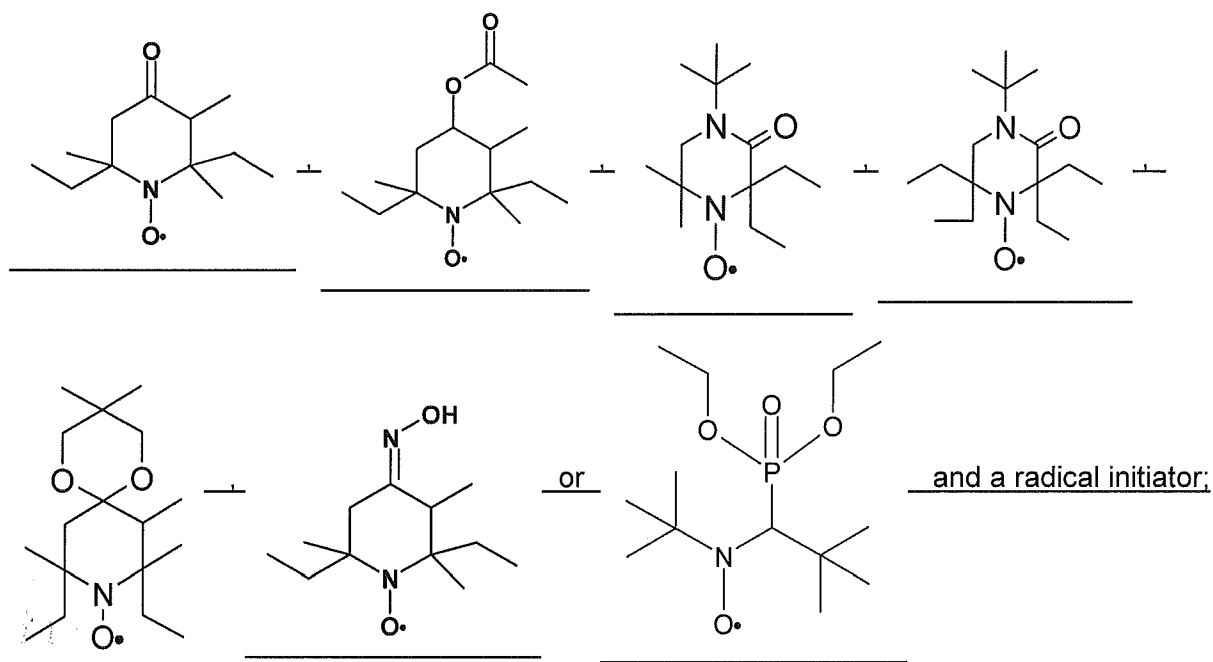
obtained by ~~nitroxyl mediated controlled free radical polymerization wherein~~

b1) polymerization in the presence of an alkoxyamine initiator/regulator of formula





b2) polymerization in the presence of a stable nitroxyl free radical of formula



wherein

In is the initiator fragment starting the polymerization reaction;

M is at least one monomer selected from the group consisting of acrylic acid, methacrylic acid, acrylic acid (C<sub>1</sub>-C<sub>22</sub>)alkyl esters, acrylic acid (C<sub>1</sub>-C<sub>22</sub>)hydroxyalkyl esters, methacrylic acid (C<sub>1</sub>-C<sub>22</sub>)alkyl

esters, methacrylic acid (C<sub>1</sub>-C<sub>22</sub>)hydroxyalkyl esters, acrylic acid (C<sub>1</sub>-C<sub>22</sub>)alkyl esters or methacrylic acid (C<sub>1</sub>-C<sub>22</sub>)alkyl esters which are substituted by amino, (C<sub>1</sub>-C<sub>22</sub>)alkylamino, (C<sub>1</sub>-C<sub>22</sub>)dialkylamino, -SO<sub>3</sub>H, epoxy, fluoro, perfluoro or siloxane groups, styrene, substituted styrene, acrylamide and methacrylamide, N-mono(C<sub>1</sub>-C<sub>22</sub>)alkyl acrylamide, N,N-di(C<sub>1</sub>-C<sub>22</sub>)alkyl acrylamide, and a multifunctional monomer with two or more ethylenically unsaturated bonds;

provided that the amount of unsubstituted acrylic acid (C<sub>1</sub>-C<sub>22</sub>)alkyl esters or/and methacrylic acid (C<sub>1</sub>-C<sub>22</sub>)alkyl esters is more than 30 % by weight based on the weight of the total monomer mixture;

E is a group bearing at least one stable free nitroxyl radical, which is bound via the oxygen atom to the polymer or copolymer; or a group which results from a substitution or elimination reaction of the attached stable free nitroxyl radical;

x is the total number of monomer units, which is a number between 5 and 5000;

y is a number 1 or greater than 1 indicating the average number of end groups E attached to the monomer sequence (M)<sub>x</sub>;

n is a number from 1 to 20; and

c) optionally water or/and one or more organic solvents.

**2. (previously presented)** A coating composition according to claim 1, comprising

a2) a thermally cross linking film forming binder resin or resins; or

a3) a radiation curable film forming binder resin or resins.

**3. (previously presented)** A coating composition according to claim 1, comprising

a2) a thermally cross linking film forming binder resin or resins.

**4. (previously presented)** A coating composition according to claim 1, comprising

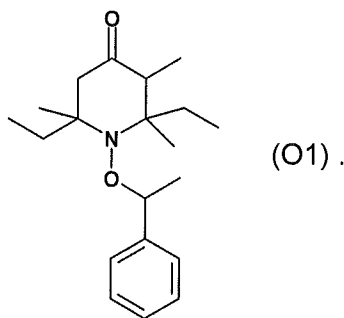
a2) a thermally cross linking film forming binder resin or resins without water and organic solvent, which is in the form of a solid powder.

**5. (canceled)**

6. (canceled)

7. (currently amended) A coating composition according to claim **[[5]]1**, wherein the leveling agent of formula (I) is obtained by

b1) polymerization in the presence of an alkoxyamine initiator/regulator of formula (O1)



8. (previously presented) A coating composition according to claim **1**, wherein the levelling agent, component b), has a polydispersity of between 1.0 and 2.0.

9. (previously presented) A coating composition according to claim **1**, wherein the levelling agent, component b), has a glass transition temperature between 20° C and 200° C.

10. (previously presented) A coating composition according to claim **1**, wherein the levelling agent, component b), is composed of at least 30 % by weight of tert-butylacrylate and/or tert-butylmethacrylate, based on the weight of total monomers.

11. (previously presented) A coating composition according to claim **1**, wherein the levelling agent, component b), is a linear polymer or copolymer, where in formula (I) n is 1.

**12. (previously presented)** A coating composition according to claim 1, wherein in formula (I), component b), y is 1.

**13. (previously presented)** A coating composition according to claim 1, wherein the levelling agent, component b), has a number average molecular weight of between 3000 to 50000 g/mol (Dalton).

**14. (previously presented)** A coating composition according to claim 1, wherein the levelling agent, component b), is composed of at least 30 % by weight of tert-butylacrylate and/or tert-butylmethacrylate, and 0.5 to 50 % of a functional monomer which is selected from the group consisting of acrylic acid, methacrylic acid, acrylic acid (C<sub>1</sub>-C<sub>6</sub>)hydroxyalkyl esters, methacrylic acid (C<sub>1</sub>-C<sub>6</sub>)hydroxyalkyl esters, acrylic acid (C<sub>1</sub>-C<sub>6</sub>)alkyl esters and methacrylic acid (C<sub>1</sub>-C<sub>6</sub>)alkyl esters which are substituted by amino, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)dialkylamino, epoxy, fluoro, perfluoro or siloxane groups.

**15. (previously presented)** A coating composition according to claim 1, wherein the levelling agent, component b), is composed of at least 50 % by weight of tert-butylacrylate and/or tert-butylmethacrylate and is a solid at room temperature.

**16. (previously presented)** A coating composition according to claim 1, wherein the levelling agent, component b), is present in an amount of 0.1 to 15% by weight, based on the weight of the film forming binder resin or resins, component a).

**17. (previously presented)** A process for improving the levelling of a coating composition according to claim 1, which process comprises the steps of applying the coating composition to a substrate and exposing it to thermal energy or electromagnetic radiation in order to obtain a homogenous solid coating.

**18-20. (canceled)**